



U.S. Department
of Homeland Security

United States
Coast Guard

FAA AIRMAN CERTIFICATION PERFORMANCE OF JOB TASKS

CG-SEA-2
PAGE 1
Revision 3/03

GENERAL

A. AVIATION SAFETY		Date	Initials
1.	Describe the safety precautions for:		
(a.)	Fuels, lubricants, or hydraulic fluids.		
(b.)	Flammable cements, resins, sealants, solvents, paints, and thinners.		
(c.)	Fluids under pressure.		
(d.)	Compressed gases, including oxygen.		
(e.)	Batteries.		
(f.)	Aviation ordnance and pyrotechnics.		
(g.)	Electrical and electronic circuits.		
(h.)	Operating radio transmitters and radar systems.		
(i.)	Hazardous noise sources.		
B. BASIC ELECTRICITY			
1.	Measure voltage, current, resistance, and continuity.		
2.	Determine the relationship of voltage, current, and resistance in electrical circuits.		
3.	Read and interpret electrical circuits.		
C. AIRCRAFT DRAWINGS			
1.	Use drawings, symbols, and schematic diagrams.		
2.	Use blueprint information.		
3.	Use graphs and charts.		
D. WEIGHT AND BALANCE			
1.	Perform a complete weight-and-balance on a tricycle gear aircraft.		
E. MATERIALS AND PROCESSES			
1.	Identify and select appropriate nondestructive testing methods.		
2.	Identify and select aircraft hardware and materials.		
3.	Perform precision measurements utilizing micrometers and special tools.		
F. GROUND OPERATIONS			
1.	Move, service, and secure aircraft.		
2.	Identify and select aviation fuels.		
3.	Perform aircraft cleaning and corrosion control.		
4.	Take routine fuel and oil samples.		
5.	Act as a fireguard during engine start.		
G. FAA PUBLICATIONS AND ADMINISTRATION			
1.	Complete FAA Form 337.		
2.	Identify how to change an address as an A&P mechanic with the FAA IAW the FAR's		
3.	Write descriptions of aircraft condition and work performed.		
4.	Read technical data.		
5.	Exercise mechanic privileges within the limitations prescribed by FAR Part 65.		

AIRFRAME

A. AIRCRAFT FINISHES		Date	Initials
1.	Apply trim, letters, and touchup paint.		
2.	Inspect finishes and identify defects.		
B. SHEET METAL STRUCTURES			
1.	Install special rivets and fasteners.		
2.	Inspect bonded structures.		
3.	Inspect and repair plastics, honeycomb, or laminated structures.		
4.	Inspect, check, service, and repair windows, doors, and interior furnishings.		
5.	Inspect and repair sheet-metal structures.		
6.	Install conventional rivets.		
7.	Hand form, lay out, and bend sheet metal.		
C. WELDING			
1.	Solder, braze, gas-weld, or arc-weld steel.		
D. ASSEMBLY AND RIGGING			
1.	Rig rotary-wing aircraft.		
2.	Rig fixed-wing aircraft.		
3.	Jack aircraft.		
4.	Assemble major components of aircraft structures.		
5.	Balance and rig movable structures.		

AIRFRAME (CONT.)			
E. AIRCRAFT INSPECTIONS		Date	Initials
1.	Perform Calendar and Hourly Inspections IAW the Aircraft Computerized Maintenance System (ACMS).		
F. AIRCRAFT LANDING GEAR SYSTEMS			
1.	Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires, and steering systems.		
G. HYDRAULIC AND PNEUMATIC POWER SYSTEMS			
1.	Repair hydraulic and pneumatic power system components.		
2.	Identify and select hydraulic fluids.		
3.	Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems.		
H. CABIN ENVIRONMENTAL CONTROL SYSTEMS			
1.	Repair heating, cooling, air-conditioning, pressurization, and oxygen system components.		
2.	Inspect, check troubleshoot, service, and repair heating, cooling, air-conditioning, and pressurization systems.		
3.	Inspect, check, troubleshoot, service, and repair oxygen systems.		
I. AIRCRAFT INSTRUMENT SYSTEMS			
1.	Inspect, check, troubleshoot, service, and repair heading, speed, altitude, time, temperature, pressure, and position indicating systems.		
2.	Install instruments.		
J. COMMUNICATION AND NAVIGATION SYSTEM			
1.	Inspect, check, and service autopilot and approach control systems.		
2.	Inspect, check, and service aircraft electronic communication and navigation system.		
3.	Inspect and repair antenna and electronic equipment installations.		
K. AIRCRAFT FUEL SYSTEMS			
1.	Check and service fuel dump systems.		
2.	Perform fuel management, transfer, and defueling		
3.	Inspect, check, and repair pressure fueling systems.		
4.	Repair aircraft fuel system components.		
5.	Inspect and repair fluid quantity indicating systems.		
6.	Troubleshoot, service, and repair fluid pressure and temperature warning systems.		
7.	Inspect, check, service, troubleshoot, and repair aircraft fuel systems.		
L. AIRCRAFT ELECTRICAL SYSTEMS			
1.	Repair aircraft electrical system components.		
2.	Install check, and service airframe electrical wiring, controls, switches, indicators, and protective devices.		
3.	Inspect, check, troubleshoot, service, and repair alternating current and direct current electrical systems.		
M. POSITION AND WARNING SYSTEMS			
1.	Inspect, check, and service speed and takeoff warning systems, electrical brake controls, and anti-skid system.		
2.	Inspect, check, troubleshoot, service, and repair landing gear position indicating and warning systems.		
N. ICE AND RAIN CONTROL SYSTEMS			
1.	Inspect, check, troubleshoot, service and repair airframe ice and rain control systems.		
O. FIRE PROTECTION SYSTEMS			
1.	Inspect, check, and service smoke and carbon monoxide detection systems.		
2.	Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems.		
POWERPLANT			
A. TURBINE/RECIPROCATING ENGINES		Date	Initials
1.	Overhaul turbine engines.		
2.	Overhaul reciprocating engines.		
3.	Inspect, check, and service, and repair turbine engines and turbine engine installations.		
4.	Inspect, check, and service, and repair reciprocating engines and reciprocating engine installations.		
5.	Install, troubleshoot, and remove turbine engines.		
6.	Install, troubleshoot and remove reciprocating engines.		
7.	Perform powerplant calendar and hourly inspections IAW the Aircraft Computerized maintenance System (ACMS).		
B. ENGINE INSTRUMENT SYSTEMS			
1.	Troubleshoot, service, and repair fluid rate-of-flow indicating systems.		
2.	Inspect, check, service, troubleshoot, and repair engine temperature pressure, and RPM indicating systems.		
C. ENGINE FIRE PROTECTION SYSTEMS			
1.	Inspect, check, service, troubleshoot, and repair engine fire detections and extinguishing systems.		
2.	Repair engine electrical system components.		
3.	Install, check, and service engine electrical wiring controls, switches, indicators, and protective devices.		
D. LUBRICATION SYSTEMS			
1.	Identify and select lubricants.		
2.	Install, check, and service engine electrical wiring, controls, switches, indicators and protective devices.		
3.	Inspect, check, service, troubleshoot, and repair engine lubrication systems.		

POWERPLANT (CONT.)			
E. IGNITION SYSTEMS		Date	Initials
	1. Overhaul magneto and ignition harness.		
	2. Repair engine ignition system components.		
	3. Inspect, check, service, troubleshoot, and repair engine fuel metering systems.		
F. ENGINE AND METERING SYSTEMS			
	1. Repair engine fuel metering system components.		
	2. Inspect, check, service, troubleshoot, and repair engine fuel metering systems.		
G. ENGINE FUEL SYSTEMS			
	1. Repair engine fuel system components.		
	2. Inspect, check, service, troubleshoot, and repair engine fuel systems.		
H. INDUCTION SYSTEMS			
	1. Inspect, check, troubleshoot, service, and repair engine ice and rain control systems.		
	2. Inspect, check, service, and repair heat exchangers and superchargers.		
	3. Inspect, check, and service and repair carburetor intake and induction manifolds.		
I. ENGINE COOLING SYSTEMS			
	1. Repair engine cooling system components.		
	2. Inspect, check, troubleshoot, service, and repair engine cooling systems.		
J. ENGINE EXHAUST SYSTEMS			
	1. Repair engine exhaust system components.		
	2. Inspect, check, troubleshoot, service, and repair engine exhaust systems.		
K. PROPELLERS			
	1. Inspect, check, service, and repair propeller synchronizing and ice control systems.		
	2. Identify, and select propeller lubricants.		
	3. Repair propeller control system components.		
	4. Inspect, check, service, and repair fixed-pitch, constant-speed, or feathering propellers, and propeller governing systems.		
	5. Install, troubleshoot, and remove propellers.		
I CERTIFY THAT THE ABOVE INITIALED INFORMATION IS ACCURATE			
INITIALS	NAME	TITLE	DATE
A&P NUMBER		TELEPHONE NUMBER	
NOTES			
1. Only a Licensed A&P mechanic or E-6 or above can verify the completion of a task.			
2. A letter from the Engineering Officer must accompany this Performance of Job Tasks sign off sheet when applying for the Airman Certificate.			